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ABSTRACT

The purpose of these units are: 1) to teach social science concepts using aviation as a vehicle to create interest and provide a meaningful context; 2) to facilitate skilled development through varied learning experiences which meet the individual needs of the students; 3) to provide learning experiences which build upon previous knowledge; 4) to develop the ability to apply knowledge to real life situations; 5) to develop the student's ability to think critically and logically; and, 6) to develop wholesome attitudes, values, and sensitivities through group interaction. Three major observations are woven through the content and activities: 1) aviation affects man's cultural patterns; 2) it is vital to modern man's communication and interaction in society; and, 3) modern man is dependent upon an economic system which is influenced by the use of aviation resources. The units are designed for kindergarten through eighth grade, and can also be utilized in language arts, science, and arithmetic. Many resources are appended: biographies on aviation pioneers, synopsis of aviation rules and regulations, a bibliography of books, booklets, periodicals, articles, and audiovisual materials. (Author/SBE)



IN SOCIAL STUDIES

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AIR AGE EDUCATION

ELEMENTARY UNITS

Cessna Aircraft Company Air Age Education Division Wichita, Kansas 67201

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INTRODUCTION

In a search for learning materials that would better convey social science concepts and generalizations to students, Air Age Education has been found to be a natural vehicle with a high degree of motivation.

A team of Fountain Valley Teachers, sponsored and initiated by Cessna Aircraft Company and American Airlines, were given planning time and extra resources to design an elementary unit which will be as functional as possible in serving teachers. The unit recognizes recent developments in social studies education which includes the use of key ideas from history and the social sciences woven into a K-8 program. It also recognizes that there are understandings, skills, attitudes, and values which can be developed with this unit as a vehicle to serve the continuing social studies programming of schools. The unit also makes it possible for teachers to utilize this material in language arts, science and arithmetic and it can be included for use in core programs as well as selfcontained classrooms.

The format of this unit is developmental and the learnings and activities have been designed from simple to complex, concrete to abstract. Suggestions have been made as to appropriate grade levels for these activities, but they could be used with very little alteration at different grade levels and it is up to the teacher to make the selection. The teacher could take any one activity and go into as much detail as needed. Some teachers may dismiss certain activities while others may take a given activity and work with it for several days. Part of this depends on the response of the class, and where there is interest and involvement the teacher should let it develop naturally as long as it is fruitful.

There are probably more suggestions offered in the unit than any one teacher would use but the material is designed for use as a resource from which to draw a variety of ideas. These call be combined with the teachers own ideas and suggestions.

In addition, the publishers have especially identified applicable ma-

terials from the Cessna/American Airlines Teacher Kit which is described on page 15. This kit provides an immediate access to materials for the unit in case other resources are difficult to obtain.

Teachers are invited to send in suggestions for improving and amplifying this unit which would be shared with others in a future edition or in our special teacher newsletter Cross Currents. We would also be pleased to have teachers copy or reproduce any portion of this unit for classroom use or distribution to other teachers.

Finally, we wish to express our gratitude to the dedicated teachers of the Fountain Valley School District for their many hours of work and for their classroom testing of the ideas contained in this unit.

Frank G. Mitchell Manager, Air Age Education Cessna Aircraft Company 1970



PURPOSE

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THE PURPOSE OF THIS UNIT IS TO:

- Teach social science concepts using aviation as a vehicle to create interest and provide a meaningful context.
- Facilitate skilled development through varied learning experiences which meet the individual needs of students.
- Provide learning experiences which build upon previous knowledge.
- Develop the ability to apply knowledge to real life situations.
- Develop the student's ability to think critically and logically.
- Develop wholesome attitudes, feelings and sensitivities through group interaction.

IN PURSUIT OF THESE GOALS, THREE MAJOR OBSERVATIONS ARE WOVEN THROUGH THE UNIT'S CONTENT AND ACTIVITIES:

- Aviation has affected, is affecting and will affect man's cultural patterns.
- Aviation is vital to modern man's communication and interaction in society.
- Modern man is dependent upon an economic system which is influenced by intelligent use of aviation resources.

Understandings:

Man's progress is based upon his use of past experiences.

People rely on the ideas and accomplishments of others in order to progress.

Aviation has helped our country grow and progress.

General Objectives:

2.4

4.6

6-8

As a result of participating in this unit, the student will:

List ways that aviation affects his daily life.

Describe how aviation affects K-2 (his immediate environment.

> Describe the importance aviation has for the community.

Compare how the historical sequence of the development of aviation has affected man's use of transportation and communication.

Compare how man's use of aviation in the past and in the present has affected the shaping of society's cultural patterns.

Compare the relationship between the development of aviation and the technological advancement of man.

Describe the effect of aviation on American culture as compared to the effect of aviation on one other culture in the American hemisphere.

Use man's knowledge of aviation to predict advancements in aviation as a means of coping with future cultural needs.

Create a plan to show how man would use aviation as a means to communicate and transport in an advanced technological society.

ECONOMICS

Understandings:

People work to satisfy some of their needs and wants.

Modern man attempts to satisfy his needs and wants by using income to purchase goods and services.

Aviation has helped man to satisfy many of his needs and wants as a producer and as a consumer.

General Objectives:

2.4

6.8

As a result of participating in this unit, the student will:

Identify and list the effects modern aviation has upon the home and family.

Identify the occupations and K-2 (services necessary to operate a local airport.

> Compare the relationship between the airport and the economy of the community.

Identify the function of modern aviation as it relates to the economic needs and services provided by modern aviation.

Identify the interdenendency between the industries of the state and the services provided by modern aviation.

Identify the physical and human resources necessary for 4.6 the expansion of the aviation industry.

> Identify aviation's contribution to the law of supply and demand.

> Describe ways in which modern civilization has affected international trade.

> Compare the relationship that has taken place between the growth of modern aviation and the development of the modern American national economy.

SOCIOLOGY

Understandings:

Man, being a social creature, must have quidelines in order to function within a society.

Rules and regulations are needed to develop useful citizens.

Aviation has developed rules and regulations for safety, convenience and effective organization.

General Objectives:

2.4

6.8

As a result of participating in this unit, the student will:

List the ways that the use of aviation has affected people in his immediate environment.

List and describe the organizations and agencies within the K-2 (community that use aviation in their operation.

> Describe the relationship of aviation and the expansion of community services.

> Compare the function of the local airport with a nearby large metropolitan facility and examine the need for more general aviation facilities

Identify and discuss the need for expanded and more sophisticated types of communication and transportation facilities at a large metropolitan airport.

Discuss the need for surround-/ing states to establish guidelines in order to have a functional interstate communication system for all aspects of air travel.

> Compare how cultural needs of different nations determine the operation of that nation's system for transportation and communication.

Identify ways by which modern aviation can help to solve the communication and transportation problems of a modern technological society.

Identify, using aviation as a vehicle, the implications for establishing an international system for communication and transportation.

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ACTIVITIES FOR IMPLEMENTING OBJECTIVES

ANTHROPOLOGY

- Appendix resources
- ** Cessna/American Airlines Teacher Kit

Suggested Grade Levels

K-2 Bring an advertisement or letter received through the mail

> Identify those delivered by air and list reasons for using air mail delivery.

- K-2 Bring a picture of an airplane from a newspaper or magazine and tell about how it is being used.
- K-2 Show pictures of past and present airplanes and discuss changes: i.e., size, speed, range.
 - ** Display pictures: Cessna and American Airlines
- K-2 Bring a list of foods chosen from mother's shopping list. Categorize those foods which have been transported by air.

Why were they brought by

How long did it take?

What kind of airplanes are used?

- ** Film: "Airplanes Work for Us"
- K-2 Take a trip to the grocery store to view and discuss how many foods have been transported at some time by air. (Example: Discuss why fresh pineapple is flown in, but cinned pineapple is not)
 - * Film: 'Where Does Our Food Ccme From?"
- K-2 On a large map, identify the location of student's relatives. Show how air travel can facilitate family relationships.
 - * Film: "Airplane Changes Our World Map"
 - * Filmstrips: "Families Around the World"; "Jet Age Geography in the U.S.A. "A Flight to Grandmothers"
- 2.4 Plan a stuJy trip to the airport to find the answers to student questions, including:

How do people of the community use the airport? What accommodations must

ECONOMICS

- *Appendix resources
- **Cessna/American Airlines Teacher Kit

Suggested Grade Levels

K-2 Take a trip to an airport to identify jobs that fathers and mothers might hold in the aviation industry.

> List jobs and duties on chart as seen and described by students following trip.

- *Book: "Come to Work With Us in an Airport.
- K-2 Oisplay objects or materials that might be transported by an airplane. If real articles are not available, a picture chart or scrapbook could be substituted.
 - * Film: "Behind the Scenes at the Airport"; "Where Does Our Food Come From?"
 - * Filmstrip: "Families Around the World"
- K-2 Build a model of the airport through block play or paper construction (e.g., paper mache or paper soulpture). Use the model to illustrate occupations and services.
 - "" Film: "The Busy Airport"
 - * Film: 'Behind the Scenes at the Airport"
 - *Filmstrips: "Airplanes at Work - Set I"; "Seeing the Airport"
- Poll the neighborhood to determine if there are people within the community employed by the aviation industry or whose jobs depend on aviation in some way.
 - ** Films: "Airplanes Work For Us"; "How Air Helps Us"
 - * Filmstrip: "Airport and Your Community"
 - List needs and wants satisfied through aviation and collect pictures of goods and services made possible through aviation (e.g., Doctor flown in for special' operation; salesman going to different cities; engineer flying to different plants to plan, install and maintain equipment; crop dusting; fighting forest fires; feeding isolated cattle; etc.)
 - " Film: "Come On Up"
 - * Film: "Eye in the Sky"

SOCIOLOGY

- Appendix resources ** - Cessna/American Airlines Teacher Kit

Suggested Grade Levels

K-2 Discuss and compile the ways in which aviation affects our family in regard to:

Sound level

Height of airplanes over homes

Travel for business, pteasure, vacations

Traffic to and from airport

- Book: "At the Airport"
- *Film: "Air Age All Around Us"
- ** Films: "If I Had Wings"; "Transportation in the Modern World"
 - *Filmstrips: "Airport and Your Community"; "People at Work"
 - *Study Prints: "How People Travel"
 - * Aviation Rules and Regulations
 - ** Aviation Glossary
- 1-2 Discuss which commercial enterprises use airplanes and how air transportation affects their operation.

Grocery store, drug store, newspapers, farms and ranches, pipeline companies, construction companies, flight schools.

- *Book: "The Airplane at the Airport"
- * Films: "Air Force Cameras in Action"; "Airplane Changes Our World Map": "Smoke Jumpers"
- *Study Print: "Community Helpers, Set I, Group II" Also use resource people in the community.
- Locate, plan, design and construct a model airport with a single 4,000' runway taking into account:

Community needs Consequence of site location Equipment and personnel necessary for operation



the people of the community provide for successful operation of the airport?

- "* Films: "Airplanes Work For Us"; "The Busy Airport"
- *Films: "Airport Activities";
 "Air Passenger"; "The Airport"; "Behind the Scenes at the Airport"; "Air Transportation"; "Air Transportation Flight";
 "Air Transportation Passenger"
- * Books: "The Airplane at the Airport"; "The Airport – Our Link to the Sky"; "At the Airport"; "Let's Go to the Airport"
- "Booklet: "Come Fly With Us"
 - * Filmstrips: "The Airport and You"; "The Airport and Your Community"; "Let's Fly"
- 3-4 Display study prints or have students draw pictures illustrating the sequential development of aviation. Create a title for each picture to "tell the story." e.g., "First Cessna to Fly," "747 Carries Most Passengers."
 - *Study Prints: "History of Aviation"; "Pistory of Mail"; "Historic Planes"; "Traces History of Aviation"
 - ** Study Prints: "Historinal Picture Series"
 - *Book: "Planes and How to Draw Them"
- 4.6 Research and report on selected persons, places and events significant in the history and development of aviation. A list of some aviation pioneers is given in the Appendix.
 - *Books: "Balloons From Paperbags to Sky Flights"; "History of Flight", "Historic Models of Early America and How to Make Them"; "Pioneers of Flight"; "Aircraft Aircraft"
 - ""Booklet: "Flying Machine: First Cousin to the Bird"
 - * Films: "Father of the Space Age"; "Wings of Yesterday"; "Five Steps to Jet

ECONOMICS

- ** Filmstrip: "New Bridges"
- **Booklet: "Come Fly With Us"
- 2.4 List ways in which a father amployed in the aviation dustry spends his wages. Discuss the effect his spending has on other commerical and service enterprises in the community.

Interview part as.
Interview or write employee of aviation industry.

- * Film: "What Fathers Do"
- 4-6 Collect newspaper articles which show how aviation specifically affects the economy of the community (e.g., salary, parking, fees, air fare, cargo rates.)
 - * Films: "Behind the Scenes at the Airport"; "Where Does Ou Food Come From?"
 - * Filmstrips: "Airplanes at Work"; "Airport and Your Community"
 - *Study Print: "Community Helpers – Set I and II"
- 4:6 Experiment with parishables (flowers, seafood, fresh fruits and vegetables) to show a need for fast and inexpensive air transportation.

Where do they come from? Why?

What places do they go to? Why?

* Film: "Where Does Our Food Come From?"

Interview or write purchasing department in local market. Write to Dole Pineapple Co. in Hawaii

Interview or write Information Officer of the nearest military base to inquire how food is supplied.

4-8 Write letters to state capitol requesting information concerning:

The growth of the aviation industry within the state.

State taxes or tariffs levied on fares or freight.

- *Write N.A.S.A.O. for addresses of State Departments of Aviation.
- 4-6 List enterprises in the state which rely heavily upon aviation. Identify specific reasons

SOCIOLOGY

Give students map of a town with location of business, industry, homes, airport. Ask them to locate a new municipal airport or enlarge existing one and add a general aviation airport.

- *Books: "The Airpori Our Link to the Sky"; "How a Jet Flies"; "Planes and How to Draw Them"
- * Films: "Aircraft"; "The Airport"; "The Best Investment We Ever Made"; "Cross Country Flight"
- Filmstrips: "How Is An Airplane Controlled?"; "How We Fly"
- * Aviation Rules and Regulations
- ** Aviation Glossary
- ** Parts of an Airplane Charts
- ** Instrument Panel Charts
- ** Instrument Landing System
 Chart
- * Also, write to General Aviation Manufacturers Association for airport information.
- 4.6 Locate, design and construct a model metropolitan airport with two main runways, at least 8,000 feet in length, auxiliary runways and taxi strips. Contrast and compare the metropolitan airport with its smaller counterpart in such areas as:

Size of grounds and facilities Number and types of personnel

Operational costs

Advantages and problems

- * Films: "Air Control"; "Airport Activities"; "Airport and the Jet Age"
- * Filmstrip: "Getting There by Air"
- *International Phonetic Alphabet
- ** Flight Deck Chart
- * * Aviation Glossary

Use resource person: airport manager or member of the local airport board.

Contact State Department of Aviation for descriptive data on airports.

4-6 Write letter to a local and a

Flight": "The John Glenn Story"; "History of Avia-''Of Men and tion' Wings"; "Man in Flight"; "Pioneers of Space"; "History of Flight Series"

- * Filmstrips: "Airplanes Set I": "How Do Helicopters Fly"; "Man in Flight"; "Transportation by Air"; "Jet Age Flight"; "Modern Flight"
- ** Filmstrips: "History of Cessna"
- * Study Prints: "Lirplanes in Flight"; "Famous Douglas Airplanes": "History of Aviation"; "Historic Planes"; "Traces History of Aviation"
- ** Study Prints: "Historical Picture Scries"
- Develop a timeline illustrating the chronology of historymaking events in aviation.
 - * Raference: "Volumes 6 and 15, Above and Beyond, the Encyclopedia of Aviation and Space Sciences"
- In committees, study and determine the various forms of transportation used by different cultures. The committee can:

Compare the length of time it takes to travel a given distance by the various forms of transportation (foot, car, boat, horseback, train, airplane).

List the most popular modes of transportation in each culture in the 19th century. Identify the reasons for the popularity of the particular modes listed

For comparison repeat process for same cultures in the mid-20th century.

- *Books: "Our Big World"; "New York to Rome"; "The Big Bird Flight Story'
- * Films: "Air Age All Around Us"; "Airplane Changes Our World Map"; "Airplane Trip to Mexico"; "The Other Pascenger": "747 Story"; "Our Shrinking World"; "The Vital Link"

ECONOMICS

for this dependence in each case.

- * Film: "Behind the Scenes at the Airport"
- * Filmstrips: "Jet Age Flight"; "Aviation as a Career -Manufacturing"
- *Study Print: "History of Mail"
- ** Booklets: "Magic of Making Airplanes"; 'What Are You Going To Do With the Next Half Century?"
- Design a questionnaire to determine whether a need exists in the community for an expansion of aviation services. Sample questions:

How often do you fly?

Did you get the flight you w.inted?

Do most out-of-town people who call on your business fly or use other transportation? Explain.

Do you use air transportation in your purchasing and distributina?

Distribute the questionnaire to a random sampling of the community.

- * Film: "The Shape of Things to Come"
- Film: "Airptanus Work for Us"
- ** Filmstrip: "New Bridges"
- Have students chart state products (crops, manufactured goods) which will be exchanged on the basis of supply and demand through interstate aviation.

Write State Department of Industry and Trade.

Contact local airlines and fixed hase operators for information

6-8 Interview persons concerned with community growth and aviation expansion (e.g., Chamber of Commerce, Aviation Representative, Homeowner Association Representative). Sample questions:

> What is the rate of population growth in the community (current and projected)?

> What are the aviation problems that currently exist in

SOCIOLOGY

metropolitan airport requesting answers to specific questions such as:

What length are the runways? What is the airport traffic nattern?

How does weather affect air traffic?

What types of aircraft use the airport?

What public facilities are available (parking, restaurants)?

What is the capacity to handle traffic at peak times?

- ** Films: "Airplanes and How They Fly": "The Busy Airpert"
- * Film: "Clouds and Weather" * Filmstrip: "Seeing the Air-
- *Aviation Rules and Regulations
- ** ILS Landing System Chart
- * * Compass Rose Game

port"

Write a class letter to the Federal Aviation Administration to determine.

> Who controls aviation rules and why they are necessary. How these rules are policed. How consistent they are from state to state and country to

Assign students to roll play a broadcast between a plane and control tower during landing maneuvers. Have a local pilot or FAA employee demonstrate proper communications to the class.

Develop individual or class picture books or a bulletin board illustrating the use of aviation rules. Write captions for each of the pictures.

- * Film: "Private Pilot"
- "Write to Sanderson-Times Mirror for available radio communications records.
- Take a field trip to the local airport and interview resource people in the diversified jobs related to airport communication and transportation.
 - Ask about problems related to the specific job.
 - Analyze the interrelatedness



- ** Films: "World on Wings";
 "Aerial Bridges of Warm
 Friendship"
- * Filmstrips: "People of Other Neighborhoods"; "Families Around the World"
- * Study Prints: "How People Travel"; "Early American Transportation"; "ICAO Exhibition Picture Set"
- ** Chart: "Map Comparison Chart"
- 6-8 Compare the uses of aviation in the United States to those in a South American country. (e.g., mail delivery, agricultural, conservation, commuter service, recreation, military service, import-export, business, tourist trade, and food shipments!
 - * Contact embassies, International Airlines, I.A.T.A., and I.C.A.O. for information.
- 6-8 Arrange a display of model airplanes. Identify the technological advancements represented by each model. Explore other advances in retractable landing gear, closed cockpit, pressurized cabins, electronic equipment to mono-wing.
 - Books: "Flight"; "Complete Book of Jets and Rockets"; "Great Flights and Air Adventures From Balloons to Spacecraft"; "Next Fifty Years of Flight"
 - * Films: "Challenge of Outer Space"; "Path to Safety"; "Saturn Propulsion Systems"; "Safe Aircraft"; "Man in Space"; "Five Steps to Jet"; "Aerodynamics — Problems of Flight"; "We Salv It Happen"
 - ** Films: "Transportation in the Modern World", Airplanes and How They Fly"
 - * Filmstrips: "\\\Varanthat Makes an Airplane Fly"; Airplanes and How They Fly"
 - "Filmstrips: "Your Flying Partner"
 - * Study Prints: "Showing Parts of an Airplane"

Thart: "Farts of an Airplane" uss problems related to avia-

ECONOMICS

the community?

Is there a new airport planned or an increase in facilities needed?

How will improvements be financed?

Talk to older businessmen:

Are there goods and services now available to you through aviation which you could not get in the past? How old were you when you took your first flight? Where did you go? Why did you fly?

7-8 Have students interview pilots with commercial and instrument licenses. Ask pilots where they fly, under what conditions, what opportunities exist?

> Interview people who fly commercially a great deal. Ask why they fly and what things are accomplished more easily by flying.

> Interview people who rent planes, fly planes they own, or fly in company aircraft. Ask what advantages they have in using air transportation as they do.

- Contact local airline offices ard aircraft dealers for names of persons to interview.
- *Periodical: "Invitation to Flying (Annual)"
- * Book: "Who, Me Fly?"
- *Booklets: ''Facts About Learning to Fly"; "Fly-I! Yourself is a Family Affair"; "The Challenge: Learning to Fly"; "Why Did Doc Sell Dobbin?"
- ** Filmstrip: "Path of Least Resistance"
- 6-8 Compare retail price list of commercial airliners (propland jet) and general aviation aircraft (single engine and twin engine) over the years. Show increased cost of living, materials, labor, etc., on chart or graph. Ask why do airplanes lost more? (Improvements, bigger engines, more space, speed, safety features, electronics, better materials.)

Write manufacturers for price comparisons.

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of personnel involved in a take-off or landing.

Investigate the rules under which they operate.

Utilize aviation rules and regulations to give students a series of traffic and safety problems. Ask them to think of solutions and then tell rules that now exist (e.g., airplanes flying every direction at different altitudes or one airplane overtaking another).

- 5-8 Discuss the design and use of flight plans in air transportation. Have each student plan a flight for a different destination. Use airplane flight schedules or FAA flight plan forms for private aircraft.
 - * Films: "Airplane Trip by Jet"; "Man in Flight"; "A Traveler Meets Air Traffic Control"
 - * Filmstrips: "Modern Flight"; "Transportation by Air"; "Safety Helpers"
 - * Book: "How To Design and Fly Models"
 - *Aviation Rules and Regulations
 - ** Highway Map Comparison Chart
 - ** Aviation Glossary

Also visit a control tower and flight plan forms can be obtained from a local FAA Flight Service Station.

- 6-8 Organize a classroom debate around the proposition:
 - Resolved that jet airports be built near populated areas. Prepare a case for both sides. Analyze resulting community advantages and problems. Utilize statements and rationale expressed by authorities, data gathered on similar situations and existing and projected community needs.
 - * Films: "The Human Factor";
 "Mrs. Cook Flies for Your
 Safety"; "Where Am 1?"
 - * Filmstrips: "Jet Age Flight";
 "Jet Age Geography in the
 U.S.A."; "Airplanes in
 Flight"

Invite a speaker to talk about aviation rules, etc. Employees of the FAA are often available.

tion that may arise in the future such as:

Location of airport Size of airport Traffic problems Sound level Speed of aircraft

Explore the reasons students have for predicting each problem. Discuss possible solutions uncovered in the research.

- *Book: "Flight Today and Tomorrow"
- * Booklet: "Transport Technology: The Decade Ahead"
- * Films: "A Place to Land";
 "Airports in Perspective";
 "Before Saturn"; "The
 Best Investment We Ever
 Made"; "Break-Through";
 "Groundwork for Peace";
 "Man Encounters Mars";
 "The New Giant"; "The
 Shape of Things to
 Come"; "The Sky Is No
 Limit"; "Wings for Adventure"; "Your Shapa in
 Space"
- 6-8 Discuss the major developments in aviation. Discuss the improvement in airplanes such as seating capacity, speed, ability to fly in bad weather, radio and radar, aid materials. How do these affect the airports being used?
 - * Article: "Future of Aviation Computerized One Way — UP"
 - Write: General Aviation Manufacturers Association for airport majorial.
 - * Film: "It Pays to Stay Open"
- 6-8 Imagine and illustrate futuristic designs of aircraft and aviation facilities emphasizing technological advancements such as:

Airport facilities (parking, baggage, restaurants, shops, waiting areas, information)

Airplanes (design, capacity, uses)

Airports (runways, traffic patterns, scheduling)

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- *Films: "The Reliability Story"; "The 747 Story"
- 6-8 Construct a graph to show changes in the number of flights offered at different times of the day, week, and year (e.g., more scheduled flights early and late in the day, on weekends, and during summer months). Develop hypotheses on the "law of supply and demand" for airlines. Also, note where people go during different times of the year.
 - * Film: "You and Me and the SST"

Write airlines for route maps and schedules.

7-8 Discuss on a panel the reasons why airmail and air freight are central to the international import-export business.

> Identify specific items that must be imported or exported and show why a balance is essential.

> Discuss differences in air mail charges from country to country.

Prepare master chart of U.S. air shipments for 19-30 countries in and out — also for foreign products. Ask: What are some goods which England imports by air? What are some exports by air? Why does England not import these products (list)? What about products imported but not by air? Why do some countries use aviation a great deal while others use air shipments less often or not at all? Have students check suppositions are suppositioned.

Have students check suppositions in encyclopedias and geography books.

- * Films: "Air Age All Around Us"; "The Seven League Step Into Tomorrow"
- 7-8 Committee reports covering the topic:

"How has aviation affected isolated world communities?" (e.g., tourism, raw materials, airports, import-export trade). Ask each student to research one country.

*Consult World Aviation Directory or I.C.A.O. for countries.

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- 6-8 With the class divided into three committees, research the transportation and communication facilities in Europe, Asia, and Latin America. Compare the ways in which air transportation and communication facilities have affected these three parts of the world (e.g., dress, foods, language, etc.).
 - * Write ₹o airlines, A.T.A., and I.A.T.A.
 - *Write to ICAO for information folders and descriptions
 - *Write FAA for related material
- 7.8 Analyze and discuss the reciprocal effect that the aviation industry has had on the development of a modern technological society in the U.S. (e.g., dispersing industry and business from large cities, development of larger sales territories, new careers and new technologies).
 - * Booklet: "What Are You Going To So With the Next Half Century?"
 - * Filmstrips: "Aviation as a Career — Transportation"; "Aviation as a Career — Manufacturing"
- 7-8 Using research, identify trends in aviation problems. Interpret existing problems and predict future problems such as:

Stacking of airplanes at large airports

Distance from airport and ground traffic hampering access

Airport noise and sonic booms

Larger aircraft

- *Books: "Transportation in Today's World"; "Flight Today and Tomorrow"
- * Films: "Air Transportation"; "Air Transportation — Passenger"; "Fundamentals of Approach Control"
- *Study Print: "History of Aviation"
- *F.A.A. Teacher Guide: "SST-T-T"
- 8 Discuss the need of a common communications system in aviation. Explain the use of the international phonetic alphabet



ECONOMICS

- * Films: "Airplane Changes our World Map"; "Transportation in a Modern World"; "Our Shrinking World"; "International Skies"
- ** Films: "Transportation in the Modern World"
- 7-8 Collect want ads showing a demand for human resources in modern. American industry. Write your own classified section and job descriptions for opportunities related to the aviation industry.
 - *Write to personnel departments of airlines and in dustries.
 - ** Booklet: 'What Are You Going To Do With the Next Half Century?''
 - * Booklets: Write to General Aviation Manufacturers Association for Library of Aviation Careers Series.
 - * Filmstrip: "Aviation Where Career Opportunities Are Bright"
- 7-8 Have students resolve a problem situation concerning the effect of modern aviation on an American business. Examples:

"You are in the fishing business in Alaska. You own a number of boats. You have a cannery. You are contacted by a businessman who is going to open a chain of five seafood restaurants throughout the U.S. Hu wants to serve fresh seafund in season. It must not be frozen. How would you get it to him? Interview an Air Freight representative, aircraft sales and leasing dealer, and restaurant owner. Consider costs and advantages of various ways of flying the seafood."

"Examine possibilities for a salesman who covers a large territory and drives 4,000 miles per month or a singing group on a tour of 50 cities and a yearly coast to coast travel schedule."

7-8 Research the topic: "What major changes will be made by the jumbo jets and the SST's on travel and transportation patterns?"

SOCIOLOGY

in facilitating communication. Identify the systems for communicating between airplanes or from airplane to control tower (e.g., radio, lights, signs, aviation rules).

Identify reasons for communication (e.g., traffic, weather, runway conditions, emergency situations, etc).

Use the information gathered on the phonetic alphabet, identification numbers and communication format to demonstrate a dialogue for takeoff, light, and landing of the airplane.

- * Films: "Record of a Flight";
 "Take the High Road";
 "Traveler Meets Air Traffic Control"
- * International Alphabet
- *Aviation Rules and Regulations
- ** Aviation Glossary
- * I.C.A.O. information folders



NOTES:	ECONOMICS	NOTES:
	Use Reader's views or letters to airport mana	to airlines and
	7-8 Have students ma to trace the beginn opment or a serv	ke a fan chart ing of a devel-
	which is the ba goods and servic mercial flights —	sis for other s (e.g., com- flight Insur-
	ance, special leasing. Hotels. S	uggage, auto port flying —
-	skydiving, resto planes, flying glic flying).	
	Form studen groups and allo to list as many	w 20 minutes
	as possible.	aevelopments
No. 2	7-8 Org the a publiful of rep	Class members
	specific communitions confronting volving aviation (ity organiza- an issue in-
	on a new local air air taxi service, o	Port, need for or creating an
•	industrial park on Representative clude Chamber	s should in-
	Aircraft dealer ager, FAA, s office, businesse	tate aviation
	7-8 Chart the fluctuation of stocks for an dustry as compared national product.	aviation in-
	Use newspaper Magazine top 5 port as resoure annual recorts companies as ba	00 annual re- ce. Also use from selected



:

mance reports.

Organize an air transportation stock club and pool resources for stock purchase during school term.

CESSNA/AMERICAN AIR AGE MATERIALS FOR ELEMENTARY TEACHERS



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This box of materials was prepared to be used in teaching about aviation in social studies and science. It contains:

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Glossary

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AIRLINE AND ASSOCIATION ADDRESSES

Air Transportation Association (ATA) 1000 Connecticut Avenue, N.W. Washington, D.C. 20036

International Air Transport Association (IATA)
1155 Mansfield Street
Montreal 113, P. Q., Canada

Allegheny Airline Hangar 12 National Airport Washington, D.C. 20001

Aerolineas Peruanas P.O. Box 1006 International Airport Branch Miami, Florida 33148

American Airlines 633 3rd Avenue New York, N. Y. 10017

British Overseas Ainways Corp. 245 Park Avenue New York, N. Y. 10017 Continental Airlines International Airport Los Angeles, California 90009

Delta Air Lines, Inc. Atlanta Airport Atlanta, Georgia 30320

El Al Israel Aírlines 850 3rd Avenue New York, N. Y. 10022

Flying Tiger Line International Airport Los Angeles, California 90009

Frontier Airlines 5900 E. 39th Avenue Denver, Colorado 80207

Iberia Airlines of Spain 518 5th Avenue New York, N. Y. 10036

Irish International Airlines 546 5th Avenue New York, N. Y. 10036

Japan Airlines 240 Stockton Street San Francisco, California 94108 K. L. M. Royal Dutch Airlines
K. L. M. Building
609 5th Avenue
New York, N. Y. 10017
Lufthansa German Airlines
410 Park Avenue
New York, N. Y. 10022
Pan American World Airways
Pan Am Euilding
New York, N. Y. 10017

Philippine Airlines, Inc. 200 Stockton Street San Francisco, California 94108

Trans World Airlines Air World Education 605 Third Avenue New York, N. Y. 10016

United Airlines School and College Service P.O. Box 66141 Chicago, Illinois 60666

Western Air Lines 6060 Avion Drive P.O. Box 92005 — Airport Station Los Angeles, California 90009



AVIATION PIONEERS

Alcock, Sir John William (1892-1919)

Considered one of the best pilots in Britain's Royal Flying Corps during World War I.

Blanchard, Jean-Pierre (1753-1809)

First to fly across the English Channel in a balloon, 1785. He was accompanied by Dr. John Jeffries.

Bleriot, Louis (1872-1936)

A French aviation pioneer, made the first flight across the English Channel in an airplane, July 25, 1909.

Boeing, William Edward (1891-1956)

An American businessman executive and aircraft manufacturer who established the Boeing Aircraft Company in 1916.

Cayley, Sir George (1773-1857)

An Englishman, often called the "Father of Modern Aeronautics." He contributed many ideas to the early history of aviation.

Cessna, Clyde (1880-1954)

Developed the fully cantilevered wing. First person to build and fly an airplane west of the Mississippi and east of the Rockies. Founded Cessna Aircraft Company in 1927.

Chanute, Octave (1832-1910)

An American civil engineer who became famous as a scientific student of gliding.

Curtiss, Glenn (1878-1930)

An American inventor who became a successful manufacturer of airplanes during World War I.

Da Vinci, Leonardo (1452-1519)

Was one of the greatest artists of the Italian Renaissance and the greatest experimental scientist of his age. He sketched flying machines based on the way birds fly.

DaHavilland, Geoffrey (1882-1965)

Designed the first fighter plane in 1912.

Da Rozier, Francoise Pilatre (1756-1785)

A French balloonist who made the flight in a captive-hot-air balloon,

Doolittle, James (1896-)

A noted American flier who led the first bombing raid of Tokyo in World War II.

Douglas, Donald (1892-)

An American aircraft manufacturer who organized the Douglas Company in 1922. He designed the army plane that made the first flight around the world in 1924.

Earhart, Amelia (1897-1937)

An American, was the first woman to cross the Atlantic Ocean by air and the first woman to receive the Distinguished Flying Cross in 1932.

Eiffel, Alexandre (1832-1923)

Was a French structural and aeronautical engineer.

Fairchild, Sherman M. (1896-)

An American inventor and businessman who has been the "Father of Aerial Mapping Photography." He developed the FC-1 and FC-2 planes, the first to have enclosed cockpits.

Farman, Henri (1874-1934)

A Frenchman who made the first night flight in 1910.

Giffard, Henri (1825-1882)

A French engineer who was the first man to successfully combine an engine of sufficient power with a balloon that could be steered, 1852.

Henson, William S. (1812-1888)

British-American aviation pioneer who designed the "Aerial Steam Carriage" in 1842.

Hughes, Howard Robard (1905.)

An American who won fame as a businessman, motion-picture producer and aviator. As an aviator he set many speed records. He founded Hughes Aircraft Corporation.

Jeffries, Dr. John (1745-1819)

Took part in the first flight across the English Channel in a balloon in 1785.

Junkers, Hugo (1859-1935)

A German airplane designer and manufacturer who patented a "flying wing" monoplane with no fuselage, 1910.

Langley, Samuel (1834-1906)

An American astronomer, physicist, and pioneer in aeronautics. He built a man-carrying "aerodrome" in 1903.

Lilienthal, Otto (1848-1896)

A German who was the first to develop and fly successful gliders. Beginning in 1891, he made more than 2,000 glider flights.

Lindbergh, Charles (1902-

An American aviator who made the first solo flight across the Atlantic Ocean in 1927.

Lockheed, Allan and Malcolm (1889-1969) & (1887-1958)

American businessmen who founded Lockheed Aircraft Corporation.

Martin, Glenn (1886-1955)

An American aircraft designer and manufacturer who was one of the best known flyers in the United States.

Maxim, Sir Heran S. (1840-1916)

An Englishman who experimented with internal combustion engines for airplanes. He tested a steam-powered airplane that actually lifted itself off the ground, 1894.

Montgolfier Brothers Jacques Etienne (1745-1799) Joseph Michael (1740-1810)

Frenchmen who invented the first balloons to carry men into the air, 1783.

Northrop, John K.

An American self-taught engineer who founded his own aircraft company in the 1920's.

Oberth, Hermann (1894-)

One of two men who earned the title "The Father of Space Flight." (Robert H. Goddard was the other.) He published a book in 1923 illustrating future space craft.

Penaud, Alphonse (1850-1880)

A Frenchman who built helicopter models powered with rubber bands in the 1870's.

Phillips, Horatio (1845-1912)

An English aeronautical pioneer who experimented in the field of wind tunnels and airfoils.

Piper, William (1881-1970)

NOTES:

Founder of the Piper Aircraft Company.

Post, Wiley (1900-1935)

An American who made the first solo flight around the world in 1933.

Quimby, Harriett (1884-1912)

An American who became the first licensed woman pilot in the United States in 1911.

Rickenbacker, Edward Vernon (1890-)

Was the leading American air ace in World War I. He shot down 22 enemy planes.

Sikorsky, Igor (1889-)

A Russian aviation pioneer in helicopters and transoceanic flying boats.

Smith, C. R. (1899.

Founder and former Chief Executive Officer of American Airlines. Former U.S. Secretary of Commerce and was also instrumental in organizing the Army Air Transport Command during World War II.

Von Opel, Fritz (1899-)

A German who flew the first rocket-powered plane in 1929.

Von Zeppelin, Count Ferdinand (1838-1917)

Was a famous German pioneer in lighter-than-air craft.

Wenham, Francois (1824-1908)

A British engineer who designed an apparatus consisting of a steam-driven fan which flew air over a model mounted in a tunnel, 1871.

Wright Brothers Wilbur (1867-1912) Orville (1871-1948)

They invented and built the first successful airplane in 1903.

Yeager, Charles (1923-)

The man who piloted the first manned aircraft to exceed the speed of sound, 1947.



A SYNOPSIS OF AVIATION RULES AND REGULATIONS

Rules for Airplane Certification

- No person may operate an aircraft unless it is in an airworthy condition.
- The pilot in command is responsible for determining whether that aircraft is in safe condition.
- The pilot must comply with the operating limitations for that aircraft (e.g., acrobatics allowed in only specific aircraft).
- Aircraft must have proper instrumentation and equipment.
 - a. Airspeed indicator
 - b. Altimeter
 - c. Magnetic compass
 - d. Tachometer
 - e. Oil pressure gauge
 - f. Oil temperature gauge
 - g. Fuel gauges for each tank
 - h. Approved safety belts
 - i. Position lights
 - i. Electrical energy source
 - k. Spare set of fuses
 - Adequate radio (transmitter, receiver) for controlled airports
- Every aircraft must have a complete inspection each 12 months which includes engine, air frame, instrumentation and radio checks. This must be signed by a government authorized mechanic who is responsible for air worthiness.
- Each aircraft used for hire or instruction must have a periodic check every 100 hours of flight time.
- The owner or operator of an aircraft must keep a current and permanent record of maintenance for that aircraft.
- The owner of an aircraft must maintain his aircraft in comptiance with mandatory service bulletins and air worthiness directives.

Rules for Pilot Certification

A. General

- No person may fly an aircraft unless he has a current pilot certificate.
- No person may be issued a pilot's certificate unless he passes a thorough medical examination.
- 3. No pilot may fly an aircraft under instrument conditions unless he has a current instrument rating.

- The private pilot license is issued without a specific expiration date.
- 5. The student pilot license is limited to 24 months
- There are three basic types of pilot certificates: private, commercial, and airline transport.
- 7. Class rating of pilot certificates are as follows:
 - single-engine land multi-engine land single-engine sea multi-engine sea rotor craft glider lighter-than-air
- 8. In order to obtain a pilot's license, a person must pass both a written and a flight test.
- Pilots working toward experience requirements must record their flight time in a fog book. All airline pilots must do this. Private pilots not working toward experience requirements are not required to do this.
- Private pilot medical certificates are issued for 24 months
 Airline pilots for 6 months.
- Pilots carrying passengers must have flown an airplane within the preceding 90 days.

B. Student Pilots

- Student pilots of airplanes must be 16 years of age glider pilots 14 years old.
- In order for solo flight, a person must be familiar with visual flight rules and be passed by his instructor in all areas of basic flight.

C. Private Pilots

- Private pilots of airplane must be 17 years old, 16 years for a glider, and 18 years for lighter-than-air.
- Before a rierson may be issued a private pilot's license, he must:
 - a. Hold a student pilot's certificate.
 - Have a total of at least 40 hours of flight instruction and solo flight time.
 - c. Have at least 20 hours of solo flight time.

- d. Have at least 10 hours of solo cross-country flight time.
- e. Pass a written test on procedure and regulations.
- Pass a flight test on procedure and regulations.
- 3. Pilots obtaining an instrument rating must have:
 - a. A commercial license or 200 hours of flight time.
 - At least 40 hours of instrument time under weather conditions or simulated in trumented conditions.
 - c. Pass a written and flight test on instrument procedures and knowledge.
- D. Commercial Pilots must have togged 200 flight hours and pass both a written and flight test.
- E. Airline Pilots must have at least 1200 hours logged and pass written and flight tests.

Rules for Flight

A. General

- All pilots must follow the aviation rules and regulations as stated in the Federal Aviation Regulations.
- The pilot is the final authority as to the operation of that aircraft.
- The pilot must check the aircraft before flight.
- Each flight crewmember (including the pilot) must keep his seat belt fastened while flying.
- No person may operate an aircraft in a careless or reckless manner so as to endanger the life or property of another.
- No person may operate an aircraft while under the influence of drugs or intoxicating liquor.
- No person may drop any object out of an aircraft that would endanger life or property.
- No person may make a flight unless there is ample fuel supply aboard.

B. Visual Flight Rules (V.F.R.)

 No person may operate an air craft so close to another aircraft as to create a collision hazard.



- No person may operate an aircraft in formation flight unless previous arrangements with the other aircraft have been made.
- No person may operate an aircraft carrying passengers for hire, in formation flight.
- An aircraft in distress has the right of way over all other air traffic.
- When aircraft are converging at the same altitude (except head on) the aircraft to the right has the right of way.
- When aircraft are approaching each other head on, each pilot shall alter his course to the right.
- The pilot overtaking another aircraft shall alter his course to the right to pass well clear.
- Aircraft on final approach have the right of way over all other aircraft, except an aircraft in distress.
- Each person operating an aircraft on the water shall keep clear of all vessels and avoid impeding their navigation and give right of way as in the air.
- 10. No person may operate an aircraft in acrobatic flight over any congested area of a city, over any assembly of persons, below an altitude of 1500 feet or when visibility is less than 3 miles.
- No person may operate an aircraft at night without proper position lights.
- No person may fly an aircraft so low as to make an emergency landing impossible.
- Minimum safe altitude is 1000 feet over congested areas or cities.
- 14. Minimum safe altitude is 500 feet over populated areas. Over open water or sparsely populated areas, there is no minimum, but aircraft may not be operated closer than 500 feet to any person, vessel, vehicle, or structure.
- 15. A flight plan for visual flight is always recommended but not required. Flight plans for instrument flight are mandatory.

- 16. No person may operate an aircraft within an airport traffic area except for the purpose of landing or taking off.
- 17. No person may operate an aircraft within an airport traffic area at more than 156 knots (180 mph) for regular aircraft or 200 knots (230 mph) for jets. No person may operate an aircraft below 10,000 ft. MSL at more than 250 knots (288 mph).
- 18. An aircraft landing or taking off at a radio controlled airport must be in constant radio contact with the control tower and comply with the directions given by him.
- When landing at an airport, the pilot must make left turns for his approach unless directed to do different.
- F.A.A. approach patterns and minimum aftitudes must be followed at each airport.
- 21. No person may operate an aircraft within a disaster area (2000 ft. above the surface and 5 miles away) unless he has permission from the F.A.A.
- No person may flight test an aircraft over populated areas.
- 23. No person may operate an aircraft within controlled air space when the ceiling is less than 1000 ft. and visibility is less than 3 miles.
- 24. When a person has received appropriate A.T.C. (air traffic control) clearance, he may fly with one mile visibility and clear of clouds. This is called Special VFR.
- 25. Aircraft flying in an easterly direction and at least 3000 ft, above the surface must fly at altitudes of odd thousands and 500 ft. (e.g., 3,500; 5,500; 7,500; etc.).
- 26. Aircraft flying in a westerly direction and at least 3000 ft. above the surface must fly at altitudes of even thousands and 500 ft. (e.g., 4,500; 6,500; 8,500; etc.).
- No person may land at a military airport unless in emergency or pre-arranged with the F.A.A.

- C. Instrument Flight Rules (I.F.R.)
 - No person may operate an aircraft under IFR (instrument flight rules) unless he has filed an IFR flight plan and received an appropriate ATC (air traffic control) clearaice.
 - No pilot may fly in IFR conditions unless he has an instrument rated certificate and is current in the aircraft being flown.
 - Aircraft flying in instrument conditions fly at odd thousand feet in an easterly direction or even thousand feet in a westerly direction (e.g., 4,000 – west; 5,000 – east, etc.).
 - No person may land or take off at an airport under IFR conditions in less than the prescribed weather minimum for that airport.
 - Under IFR, no person may operate an aircraft less than 1,000 feet above the surface or 2,000 feet over mountains
 - The pilot, under IFR, shall continuously keep tuned to the appropriate radio frequency and shall make regular position reports.

D. Emergency Rules

- In an emergency requiring immediate action, the pilot may deviate from any rule.
- When landing at a controlled airport and the radio fails, the pilot must maintain visual contact with the control tower and remain in the traffic pattern until he is given a light signal to land.
- If radio failure occurs during IFR conditions, the pilot must continue the flight as planned, landing as soon as visually possible. If this is impossible, the original flight plan and time must be followed. (ATC will follow the flight on radar.)
- In the advent of engine failure, the pilot should make every aftempt to land where life and property will not be jeopardized. (e.g., fields, dry river beds, open highways).
- Emergency radio frequency is 121.5 megaherz.



	PPENDIX - BOOKS, BOOKLETS, PERIODICALS				
	Title	Author	Level	Publisher	Published
	About the Airplane at the Airport		1-4	Melmont	1958
	About Clouds		K-4	Melmont	1959
	About the Bilet of a Blace	•	1⋅4 K-5	Melmont	1960 1959
	About the Pilot of a Plane	•	K-9	Melmont Morrow	1964
	Aircraft Aircraft		5 up	Hamlyn (London)	1964
	Air Drop, Men, Weapons and Cargo by Parachute		5 up 6-8	Coward	1957
	Air Drop, Men, Weapons and Cargo by Parachute Air Is All Around You	· ·	1.3	Crowell	1953
	Air Transport and Its Regulators	•	Teacher	Harvard	1962
	Air War Against Hitler's Germany		U	Harper	1964
	Aircraft and How They Work		3.6	Doubleday	1959
	Aircraft at Work	· ·	6.9	Harvey	1964
	Aircraft of World War I		1- U	Coward	1962
	Airplane at the Airport, The	• •	K-3	Melmont	1958
	Airplanes and How They Work	•	5-7	Putnam	1966
	Airport, Our Link to the Sky, The		3.9	Whitman	1961
	Around the Corner, "Big Fellow and the	riowen, modert o.	55	***************************************	
	Airplane"	Russell David	2	Ginn	1936
	Around the Corner, "Flying Fireman, The"	Russell David	2	Ginn	1966
	Around the Corner, "Happy the Helicopter"	Russell David	2	Ginn	1966
	Around the Corner, "Peter and the Pilot"		2	Ginn	1966
	At Home Around the World		١٠Ū	Ginn	1965
	At the Airport		K-3	Melmont	1954
	Aviation From the Ground Up		6-9	Lippincott	1960
	Aviation and Space Medicine		8	Dutton	1962
	Balloons Fly High		I-U	McGraw	
	Bailoons: From Paper Bags to Sky Hooks		5 up	MacMillan	1070
	Big Bird Flight Story, The		1.0	Trans World Airlines	1970
	Boy's Life of the Wright Brothers	- ·	9 up	Harper	1928
	Bomber Planes That Made History		1.0	Putnam	1959
	Bridle (agasus, A		ŀU	Viking	1951
	Bush Flying in Alaska		ŀŪ	Morrow	
	Cave Man to Space Man	Friskey, Margaret	5 up	Children's Press	1961
	Civil Aviation and Peace		Teacher	Brookings	1944
	Come to Work With Us in an Airport		K-3	Sextant	1970
	Complete Book of Helicopters, The		5-1-U	World	1967
	Complete Book of Jets and Rockets, The	.Ahnstrom, D. N.	6∙9	World	1959
	Dirigibles That Made History	.Cooke, David C.	5 up	Putnam	1962
	Discovering Aerospace	.Pacilio, James	ŀŪ	Children's Press	1965
	Experiments with Airplane Instruments		7.8	Crowell	1953
	,	,			
	Falcons of France	· · · · · · · · · · · · · · · · · · ·	ŀU	Little	1929
	Federal Control of Entry into Air Transportation		Teacher	Harvard	1951
	Fighter Planes that Made History		I-U	Putnam	1958
	First Book of Aircraft Carriers, The		I∙U	Watts	1964
	First Book of Airplanes, The	.Bendick, Jeanne	I-U	Watts	
	Flight	Stever, H. Guyford	6 up	Time, Inc.	1967
		Haggerty, James J.			
	Flight Today and Tomorrow		5 u p	McGraw	1962
	Flights That Made History	.Cooke, Pavid C.	5 u p	Putnam	
	From Flying Horse to Man in the Moon	.De Leeuw	9 up	St. Martins	1963
	From Kite to Kitty Hawk	.Bishop, Richard W.	5 up	Crowell	1958
	Gliders	.Kettelkamp, Larry	Р	Morrow	1961
	Great American Fighter		ŀU	Random House	1961
	Great Flights and Air Adventures From Balloons	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.50.
	to Spacecraft	.MacMillan, Norman	9 up	St. Martins	
	Helicopters Work Like This				
			I:U	Roy	1003
	Heroes of the Skies	.ncyt, Eawin	6-8	Doubleday	1963
e"	Historic Models of Early America and How to	Manipley C 1	ŀU	Harcourt	1947
	Make Them	• ,	1-0	Hallout	1347
		30			



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PPENDIX BOOKS, BOOKLETS, PERIODICALS AND ARTICLES Title Author	Level	Publisher	Publish
listory of Flight, TheEimeral, Sarel	5 up	Golden Press	
fow to Design and Build Flying ModelsLaumer, Keith	6⋅8	Harper	1960
low Do You Travel	K-3	Abingdon	
low a Jet FliesPaust, Gilbert H.	I∙U	Sterling	1962
flow and Why Wonder Books of Flight, The \dots . Highland, Harold J	I. 2⋅€	Grosset	1961
Want to be an Airplane Hostess	K⋅3	Children's Press	1960
Want to be an Animal Doctor	K∙3	Childran's Press	1956
Want to be a Bus Driver	K∙3	Children's Press	
Want to be a Carpenter	K-3	Children's Press	1959
Want to be a Coal Miner	K·3	Melmont	1957
Want to be a Dentist	K⋅3	Children's Press	1960
Want to be a Dairy Farmer	K⋅3	Children's Press	1957
Want to be a Fireman	K⋅3	Children's Press	
Want to be a Homemaker	K⋅3	Children's Press	1961
Want to be a Librarian	K-3	Children's Press	1960
Want to be a Mechanic	K-3	Children's Press	1959
Want to be a News Reporter	K-3	Children's Press	1958
Want to be a NurseGreene, Carla	K-3	Children's Press	1957
Want to be a Pilot	K⋅3	Children's Press	1957
Want to be a Road Builder	K-3	Children's Press	1958
Want to be a Storekeeper	K⋅3	Children's Press	1958
Want to be a Teacher	K⋅3	Children's Press	1957
Want to be a Train Engineer	K-3	Children's Press	1956
Want to be a Truck Driver	K-3	Children's Press	1958
Want to be a Zoo Keeper	K-3	Grosset	1960
lustrated Space EncyclopediaBergaust, Erik	I.U	Putnam	1965
Their HonorFeeny, William O.	I-U	Meredith	1963
et PilotLent, Henry B.	6-8	MacMillan	1959
et Ploneer	1-U	Meredith	1963
ungle in the SkyPuccinelli	ŀU	Putnam	1963
unior Airman's Book of Airplanes	5.8	Dodd	1958
unior Science Book for Flying Feravolo, Rocco V		Garrard	1960
earning About Our Neighbors		Allyn	1965
et's Find Out About SafetyShapp, Martha	K-2	Watts	1964
et's Go to the AirportSootin, Laura	1.4	Putnam	1957
ittle Airplane, TheLenski, Lois	K-5	Walck	1938
ittle Auto, The Lenski, Lois	K∙5	Walck	1934
oopyGramatky, H.	Р	Hale	
Magnificent Men in Their Flying Machine, The Searle, Ronald	١٠U	Norton	1965
laking of a Pilot, TheRichter, Ed.	6-8	Westminster	1966
ommy's at Work	K⋅3	Knopf	196
ly Book of Transportation Nelson, Mary E.	K-3	Ottenheimer	196
ly FamilySchlein	K.3	Abelard	
ew York to Rome; Jet Flight 808	A. I·U	Harper	1962
ext Fifty Years of Flight, The	I∙U	Viking	1960
ur Big WorldBarrows, Harlan H	. I-U	B urdett	1964
ur Neighborhood	l. K-3	American Book	196
ur Space Age Jets	I∙U	Coward	1959
ionsers of Elight	T. 5 up	Hamond	1989
lanes and How to Draw Them	U	Vanguard	1956
acing Planes That Made HistoryCooke, David C.	6.9	Putr _i am	1960
eal Book About Airplanes, The	6-B	Doubleday	196
ed Light, Green Light		Doubleday	1944
egulation and Competition in Air Transportation Richmond, S. B.	Teacher	Columbia	1961
escue From the Air and in Space		Dodd	1963
ide on the Wind	3⋅5	Scribner	1956
oads to Everywhere "Benjie and the Pilot" Russell, David	• •	Ginn	1966
loads to Everywhere "Cockpit in the Clouds" Russell, David	4	Ginn	1966
toads to Everywhere "The Chopper"	4	Ginn	1966

APPENDIX - BOOKS, BOOKLETS, PERIODICA	LS AND AP. 'FS			
Title	Author	Level	Publisher	Published
Safer Skyway Federal Control of Aziation Saga of Flight from Lionardo Da Vinci to the	Whitnah, Donald	Teacher	Iowa State	1967
Guided Missile, The	Duke, Neville	5 up	Avon	1964
Seaplanes That Made History	Cooke, David C.	5 up	Putnam	1963
Seven Came Through	Rickenbacker, Edw. V.	۱۰U	Doubleday	1943
Skyblazers: Your Career in Aviation	Neal, Harry E.	6-8	Messner	1958
Story of Amelia Earhart, The		5 up	Grosset & Dunlap	1955
Story of America - Transportation		K-5	Fideler	1964
Story Behind Great Inventions, The		6-8	Dodd	1944
Story of the U.S. Air Force	Loomis, Robert D,	1-U	Random House	1959
Test Pilot	,	8	Dutton	
Test Pilots		6	Watts	1962
Tommy Learns to Fly		3.4	Crowell	1956
Trails to Treasure "Amelia Earhart"	Russell, David		Ginn	196 6
Trails to Treasure "Danny Dunn and the		_	٥.	
Anti-Gravity Machine"		6	Ginn	1966
Trails to Treasure "Faster Than Sound" Trails to Treasure "A Girl Who Loved the	Russell, David	6	Ginn	1966
Stars"	•	5	Ginn	1966
Transport Planes That Made History	Cooke, David C.	1-U	Putnam	1959
Transportation in Today's World		ŀŬ	Creative Ed.	1965
True Books of the Policeman & Fireman	Miner, Irene	K-3	Children's Press	1954
We Were There at the First Airplane Flight	Sutton, Felix	I-Ü	Grosset & Dunlap	1960
Who, Me Fly?	Robert Scharff	u	Cessna Aircraft Co.	1966
Who Really Invented the Airplane	Cooke, David	5- 7	Putnam	1964
World Around the World	• •	1-U	Burdett	1965
Wright Brothers, The Wright Brothers, Pioneers of American	Reynolds, Quentin	I-U	Random House	1950
Aviation, The	. ,Reynolds, Quentin	3-8	Random House	1950
Book lets:				
Facts About Learning to Fly	Cessna Aircraft Co.	U	Cessna Aircraft Co.	.369
Fly-It-Yourself is a Family Affair	Cessna Aircraft Co.	U	Cessna Aircraft Co.	1969
Challenge: Learning to Fly, The	Cessna Aircraft Co.	U	Cessna Aircraft Co.	1969
Why Did Doc Sell Dobbin?	Cessna Aircraft Co.	U	Cessna Aircraft Co.	1969

Periodicals:

Air Progress, 420 Lexington Ave., New York, N. Y. 10017. Monthly. News about all phases of the industry and articles of general interest to pilots. Upper Elementary.

Invitation to Flying. One Park Avenue, New York, N. Y. 10016. Annually, Compilation of articles on all aspects of flying including a section on careers, Upper Elementary.

Articles:

Future of Aviation Computerized One Way – Up ... Cessna Air Age Ed. All Cessna Aircraft Co. 1970

INTERMIATIONAL PHONETIC ALPHABET						
Α	Alfa	(A1-fah)	N	November	(No vem-ber)	
В	Bravo	(Brah-yoh)	0	Oscar	(Oss-cah)	
C	Charlie	(Char-lee)	Р	Papa	(Pah-pah)	
D	Delta	(Dell-tah)	Q	Quebec	(Keh-beck)	
Ε	Echo	(Eck-oh)	R	Romeo	(Row-me-oh)	
F	Foxtrot	(Foks-trot)	S	Sierra	(See air rah)	
G	Galf	(Golf)	T	Tango	(Tan go)	
Н	Hotel	(Hoh-tell)	U	Uniform	(You-nee-form	
1	India	(In-dee-ah)	٧	Victor	(Vik-tah)	
J	Juliett	(Jew-lee-ett)	W	Whiskey	(Wiss-key)	
K	Kilo	(Key-loh)	×	Xray	(Ecks ray)	
L	Lima	(Lee-mah)	Y	Yankee	(Yang key)	
M	Mike	(Mike)	7	Zulu	(Zoo-loo)	



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·		space - Volume 15 is a teacher resource edition.
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Film Libr P.O. Box	Aviation Administration (FAA)	Film Catalog (Catalog of films for free loan)
Office of	Aviation Administration (FAA)	Teacher Guides (SST-T-T), resource lists, information services
Suite 120 1025 Cor	Aviation Manufacturers Assn	Information about general aviation, airports, teak .er resources, career library series.
Internation	onal Civil Aviation Org. (ICAO)	"ICAO — What it is, What it does, How it works." (pamphlet) "Air Age Education" (International Teacher Kit) "Exhibition Picture Set" "ICAO Bulletin" (monthly magazine)
120 East	ommission on Aerospace Education	Aerospace Bibliography and Resource Guide, 1965-1970
806 15th Washingto	Aerospace Education Council (NAEC)	ness book for primary grades AVIATION ACTIVITIES, S.50 each, Workbook for primary grades. A FLIGHT TO GRANDMOTHERS, S.30 each, 40-page booklet describing a trip taken by a brother and sister. Picture of Wright Brothers' FLYER, \$1.00 each. The Wright Brothers (10 pictures), \$1.00 each. Pictures, Pamphlets, and Packets, \$.50 each. (List of free and inexpensive teaching materials.) Aviation Education Bibliography, \$.50 each. (Compilation of books, periodicals, films, etc.) U.S. Aircraft, Missiles, and Spacecraft, \$3.00 each, (pictorial review of all U.S. products in current production).
Suite 100	Association of State Aviation Officals (NASAO)	Write for addresses of State Dept. of Aviation.
219 East	Express Agency	"Air Express Story" (booklet)
8065 Eas	n Times Mirror	Recordings of LP records and tape available on various radio-communications. Aviation-Aerospace Guide and Catalog.
National .	ian Institution	"Monograms on Air Pioneers", National Aeronotical Collections
S. Gove	endent of Documents	Price List 79, List of pamphlets on aviation
by ERIC	93	

OTHER RESOURCES (Continued)

U.S. Postmaster General	U.S. Air Mail Service Map
World Aviation Directory	. Addresses and references to every major National and International Aviation Organization.



APPENDIX - FILMS

Title	L evel	Color	Location
Aerial Bridges of Warm Friendship Aerodynamics — Problems of Flight	M∙U	X	Cessna-American Kit Service Films
Air Age All Around Us			Institute Cinema
Air All About Us	M	X	Cessna-American Kit Service
Air All Around Us			Young America Films, Inc.
Air Control	5.8		Federal Aviation Administration
Aircraft			Society for Visual Education
Air Force Cameras in Action			Air Force Film Library
Air Force Story, The			Air Force Film Library
Airplane Changes Our World Map			Encyclopedia Britannica Films
Airplanes & How They Fly	M-U	X	Cessna-American Kit Service
Airplanes: Principles of Flight Airplanes Work For Us	M-U K∙U	X X	Cessna-American Kit Service Cessna-American Kit Service
Airplane Trip by Jet, An	K·I	^	Encyclopedia Britannica Films
Airplane Trip to Mexico	IX-1		Encyclopedia Britannica Films
Airport Activities	K-4		Academy Films
Airports in Perspective	Ü		Federal Aviation Administration Film Library
Airport In The Jet Age	K-4		Churchill Films
Airport Passenger Flight			Academy Films
Airport, The	K-3		Academy Films
Airport Transportation			Library Films, Inc.
Air Transportation - Flight			Society for Visual Education
Air Tran., ortation - Passenger			Society for Visual Education
Air University			Air Force Film Library
A Is For Aeronautics American In Space			N.A.S.A. N.A.S.A.
Approach to Land	6-8		Oregon State Board of Agronautics
Ariel 11	0-0	х	N.A.S.A.
Autonetics In Action		Α	Autonetics Division
Aviation Mechanic	4.8		Federal Aviation Administration
Before Saturn		X	N A.S.A.
Beginning Responsibilities: Rules at School	K-4	x	Coronet Films
Behind The Scenes At The Airport		•	Carl F. Mahnko Productions
Best Investment We Ever Made, The	U	x	FAA Film Library
Bill /'s Helicoptor Ride	K-4	×	Coronet Films
Breakthrough			Air Force Film Library
Busy Airport, The	K-4	×	Cessna-American Kit Service
Challerige of Outer Space			Air Force Film Library
Champions of Champions			General Dynamics Corporation
Checkmate. Dept. of the Air Force			Lockheed
City and Its People, A	1-4	X	Film Associates
Closids			Almanac Films
Clouds & Weather			Institute Cinema Service
Cold Front, The	5-8	.,	Federal Aviation Administration
Come On Up	K-8	×	Cessna Aircraft Company
Control Procedures Cross Country Flight	5·8 5·8		Federal Aviation Administration
	3.0		Federal Aviation Administration
Dream That Wouldn't Down, The			N.A.S.A.
Easy Does it Lockheed			Lockheed-Georgia Company
Everyone Helps in a Community	1-4	X	Churchill Films
Eye in The Sky	K.8	×	McGraw-Hill Films
Family Teamwork and You	4-6		Charles Cahill & Associates, itse.
Farmer Don and the City	1.4	×	Film Associates
Father of the Space Age			N.A.S.A.
Field Training Program in the U.S.A.F., The			Air Force Film Library
Five Steps to Jet	7.8		Air France
Flight Flight Decision, The	7·8 6·8		Federal Aviation Administration Idaho Dept. of Aeronautics
Tight of Faith The	0.0	х	N.A.S.A.
ight Simulation			International Business Machines Corp.
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APPENDIX - FILMS

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APPENDIX -- FILMS

Title	Level	Color	Location
Take The High Road This Is the Falcon To Save a Life Transportation in the Modern World Traveler Meets Air Traffic Control, A	6-8 5-8 4-8	×	Wisconsin Aeronautics Commission Hughes Aircraft Co. Calif. Aeronautics Commission Cessna-American Kit Service Federal Aviation Administration
United 6534	5-8		Idaho Dept. Of Aeronautirs
Vital Link, The		X	N.A.S.A.
Wake Turbulence We Saw It Happen Weather, The Weather for Beginners What Fathers Do Where Am I Where Does Our Food Come From? Wings for Adventure	7-8 6-8 1-3 1-3	x	Federal Aviation Administration United Aircraft Corp. Encyclopedia Britannica Films Coronet Films Churchill Films Air Force Film Library Coronet Films United Airlines
Wings of Yesterday World of Jimmy Doolittle, The World on Wings	7-8	×	Mobil Oil Co. TRW Space Systems Cessna-American Kit Service
You and Me and the SST Your Share In Space	6-8		Federal Aviation Administration N.A.S.A.

APPENDIX - FILMSTRIPS

Airplanes & How They Fly	K-8	×	Eve Gate House Inc.
Airplanes At Work, Set I	K-2		Herbert M. Elkins Co.
Airplanes, Set I	K-2	X	Curriculum Materials Corp.
Airport and You, The	K-3		United Airlines
Airport and Your Community			United Airlines
Aviation As A Career - Government & Services			Stanley Bowmar Co.
Aviation As A Career — Manufacturing			Stanley Bowmar Co.
Aviation As A Career — Transportation			Stanley Bowmar Co.
Aviation — Where Career Opportunities Are			
Bright	6-8	×	Mational Aerospace Education Council
Families Around the World	1.8		F.O.M. Audio-Visual Division
Flight to Grandmothers, A	K-4	×	National Aerospace Education Council
Getting There and Back by Air	K-8	X	Eye Gate House Inc.
How Do Helicopters Fly?	K-8	×	Photo and Sound
How Is An Airplane Controlled?	3-8		Photo and Sound
How We Fly	K-8	X	McGraw-Hill Films
Jet Age Flight	58	×	Society For Visual Education, Inc.
Jet Age Geography In the U.S.A.			United Airlines
Learning Language Through Aviation			Federal Aviation Administration
Let's Fly	K-4	×	Bailey Films, Inc.
Man In Flight	5-8	×	Encyclopedia Britannica Films
Modern Flight	6.8		United Airlines
New Bridges	4.8	X	Cessna-American Kit Service
Path of Least Resistance	4-8	x	Cessna-American Kit Service
People at Work	1.3		Eye Gate House Inc.
People of Other Neighborhoods	1-3		Eye Gate House Inc.
Seeing the Airport			Federal Aviation Administration
Transportation By Air	K-8	X	Eye Gate House, Inc.
What Makes An Airplane Fly?	4-8	×	Photo and Sound
wings To Understanding Uses of Aircraft			Federal Aviation Administration
r Flying Partner	4.8	×	Cessna-American Kit Service

APPENDIX - STUDY PRINTS

Title	Number of Prints	Location
Airplanes in Flight	7	Conveir Division of General Dynamics
Community Helpers Community Helpers, Set !, Group 2 Community Helpers, Set II, Group 2		F. A. Owen Publishing Co. F. A. Owen Publishing Co. David C. Cook Publishing Co.
Display Pictures	19	Cessna-American Teacher Kit
Early American Transportation Exhibition Picture Set	8 8	Walt Disney Educational Materials Co. International Civil Aviation Org.
Famous Douglas Airplanes	Portfolio of Prints	McDonald-Douglas Aircraft Co.
History of Aviation History of Mail Historical Picture Series Historic Planes How People Travel	16 10 16	R & B Division, Stand. Packaging Corp. United Airlines Cessna-American Teacher Kit United Airlines David C. Cook Publishing Co.
Postal Helpers		Society for Visual Ed., Inc.
Safety Helpers Showing Parts of an Airplane		Society for Visual Ed., Inc. Society for Visual Ed., Inc.
Traces History of Aviation Transportation Helpers		B & B Division, Stand, Packaging Corp. Society for Visual Ed., Inc.



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Avon Book Division Hearst Company 959 8th Avenue New York, N. Y. 10019

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Brookings Institute 1775 Mass. Ave., NW Washington, D. C. 20036

Burdette & Co., Inc. 437 D Street Boston, Mass. 02210

Cessna Aircraft Company Air Age Education Division P.O. Box 1521 Wichita, Ks. 67201

Children's Press Inc. 1224 W. Van Buren Street Chicago, III. 60601

Columbia University Press 136 S. Broadway Irvington-on-Hudson, N. Y. 10533

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Creative Education Press Creative Education Society Inc. 500 Kappock Street Bronx, N. Y. 10463

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Harcourt, Brace & World Inc. 751 3rd Avenue New York, N. Y. 10017

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Iowa State University Press Press Building Ames, Iowa 50010

Alfred A. Kropf Inc. 201 E. 50th New York, N. Y. 10022 School & library Orders to:

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Little, Brown & Co. 34 Beacon Street Boston, Mass. 02106

MacMillan Company 866 3rd Avenue New York, N. Y. 10022

McGraw Hill Book Co. 330 W. 42nd Street New York, N. Y. 10036 Melmont Books Affiliated with: Children's Press Inc. 1224 W. Van Buren Street Chicago, III. 60601

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Viking Press Inc. 625 Madison Avenue New York, N. Y. 10022

Henry Z. Walck Inc. 19 Union Square West New York, N. Y. 10003

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Franklin Watts, Inc. Subdivision of Grolier 575 Lexington Avenue New York, N. Y. 10022

Westminister Press Witherspoon Building Juniper & Walnut Streets Philadelphia, Pa. 19107

World Publishing Co. 110 E. 59th St. New York, N. Y. 10022

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Academy Films, Inc. 748 N. Seward Street Hollywood, Calif. 90038

Air France 1350 Avenue of the America's New York, N. Y. 10019

Almanac Films, Inc. 29 E. 10th Street New York, N. Y. 10003

Association Instructional Materials Div. of Association Films, Inc. 600 Madison Avenue New York, N. Y. 10022

Audio Visual Aids Services 712 Romayne Avenue Racine, Wisc. 53402

Autonetics Division
North American Rockwell Corp.
Film Library, Public Relations Dept.
3370 Mira Loma Avenue
Anaheim, Calif. 92803

Boeing Company Film Dept. M/S11-23 P.O. Box 3707 Seattle, Wash. 98124

Charles Cahill & Assoc., Inc. 5746 Sunset Blvd. Los Angeles, Calif. 90028

Califor: NAeronautics Commission Bus, & Transportation Agency Sacramento Municipal Airport Sacramento, Calif. 95822

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Dregon State Board of Aeronautics 3040 25th Street, S.E. Salem, Oregon 97310

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Texas Christian University Instructional Media Center T.C.U. Station Box 30450-A Fort Worth, Texas 76129

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400 Main Street
East Hartford, Conn. 01608

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Wisconsin Aeronautics Commission Wisconsin Dept. of Transportation 994 Hill Farms State Office Bldg. Madison, Wisc. 53702

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National Aerospace Education Council 806-15th Street, N.W. Washington, D. C. 20005

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